

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P637644

Luminaire Tested: **IFLD-S-SA3D-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637644
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21893.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

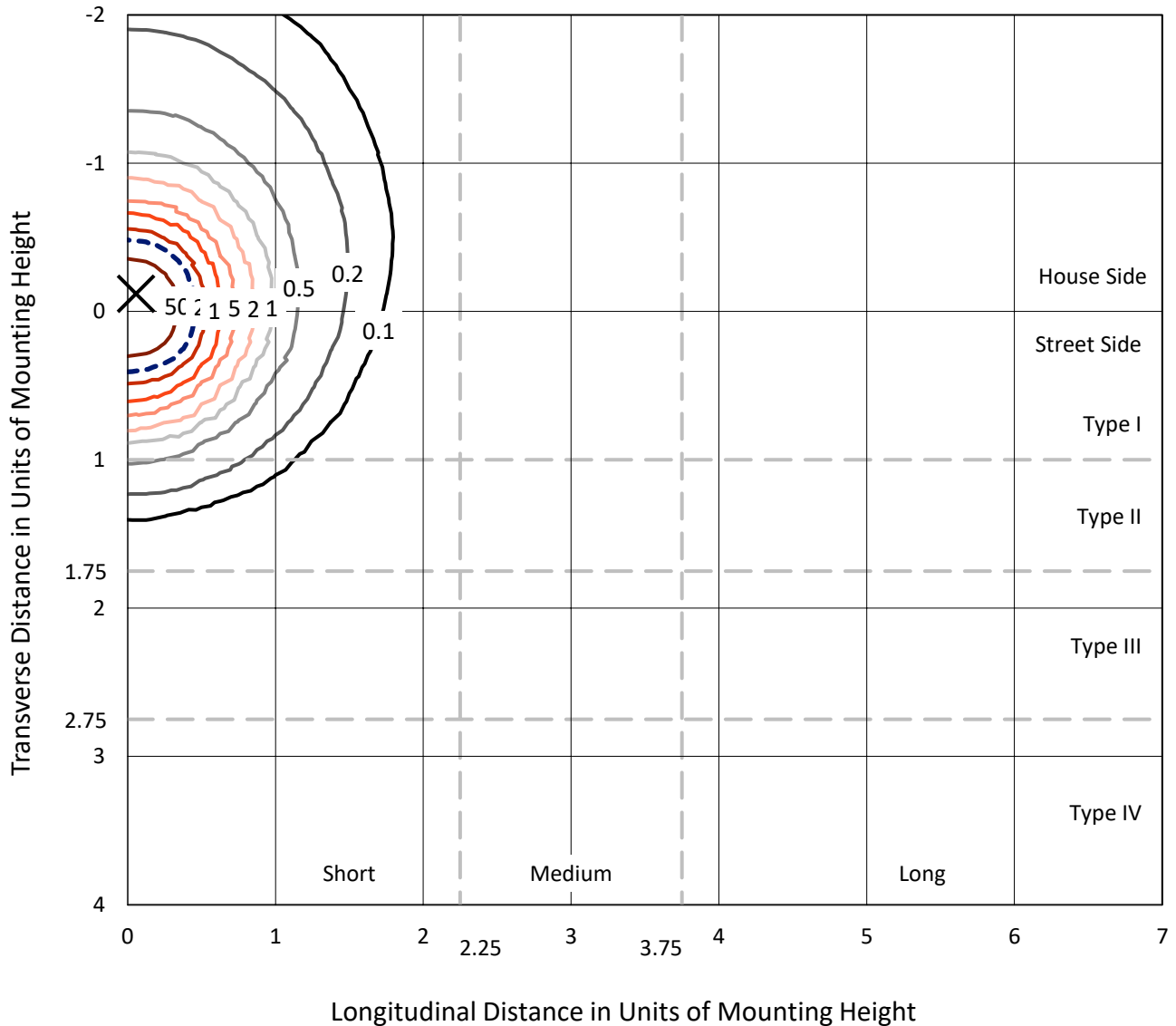
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

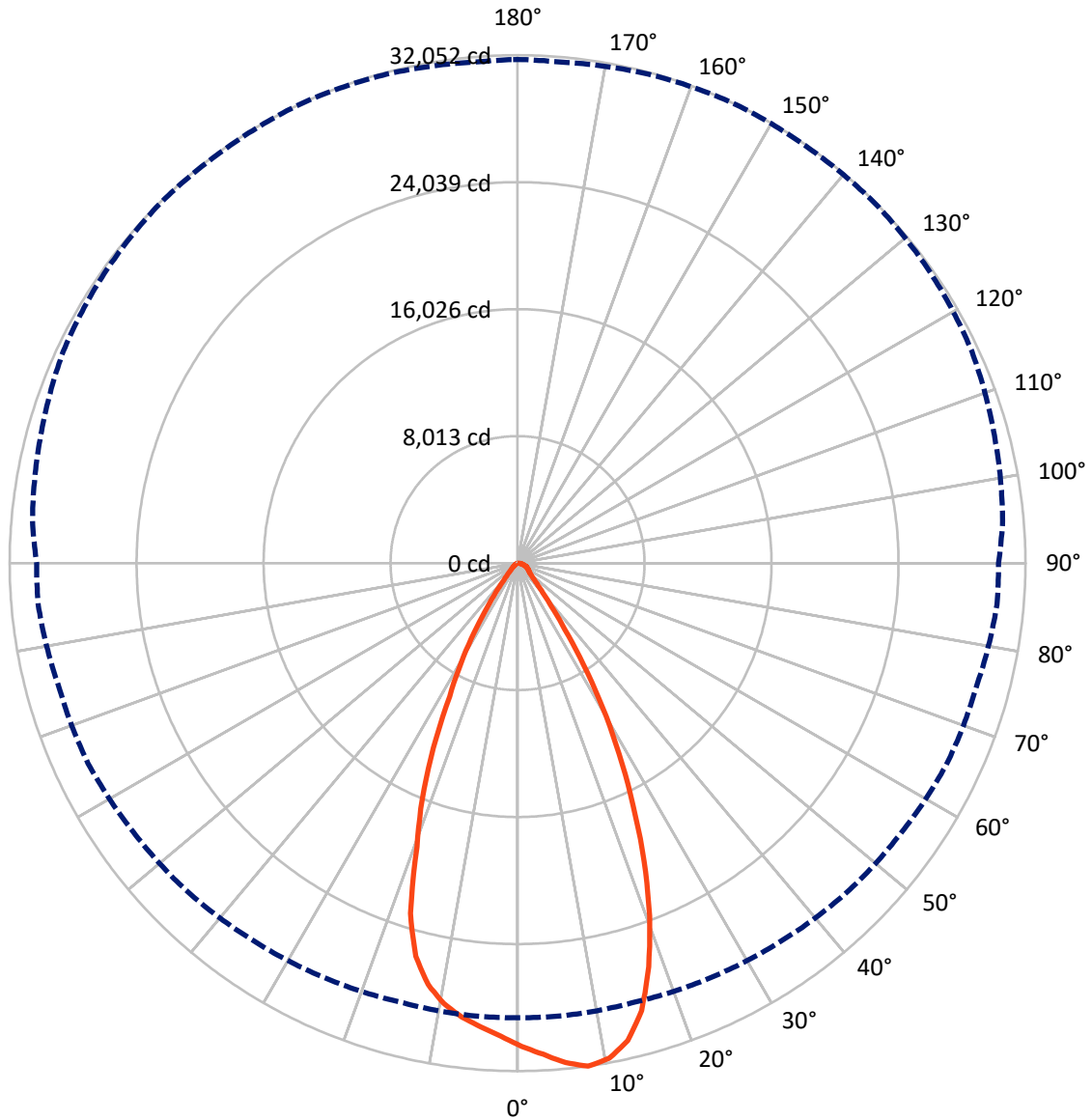
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 7.5-Deg Vertical

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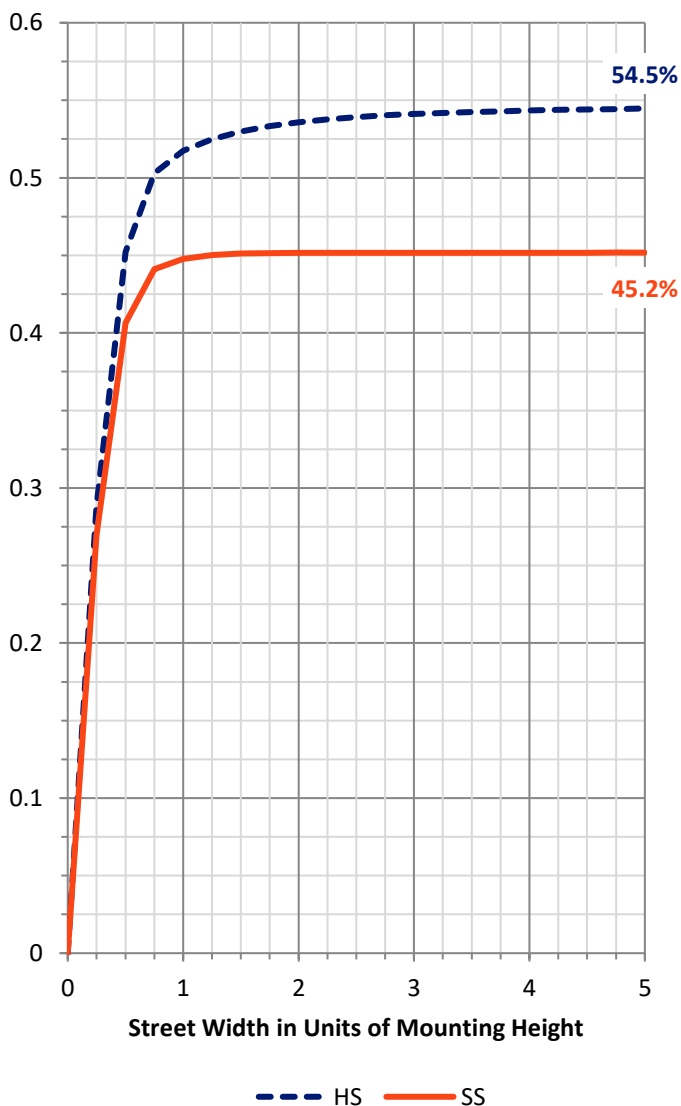
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12085.9	0.0	12085.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9807.4	0.0	9807.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	21893.2	0.0	21893.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2908.3	13.3
10°-20°	7541.2	34.4
20°-30°	6909.8	31.6
30°-40°	2791.6	12.8
40°-50°	818.9	3.7
50°-60°	457.9	2.1
60°-70°	278.1	1.3
70°-80°	141.3	0.6
80°-90°	46.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21893.2	100.0
0°-180°	21893.2	100.0



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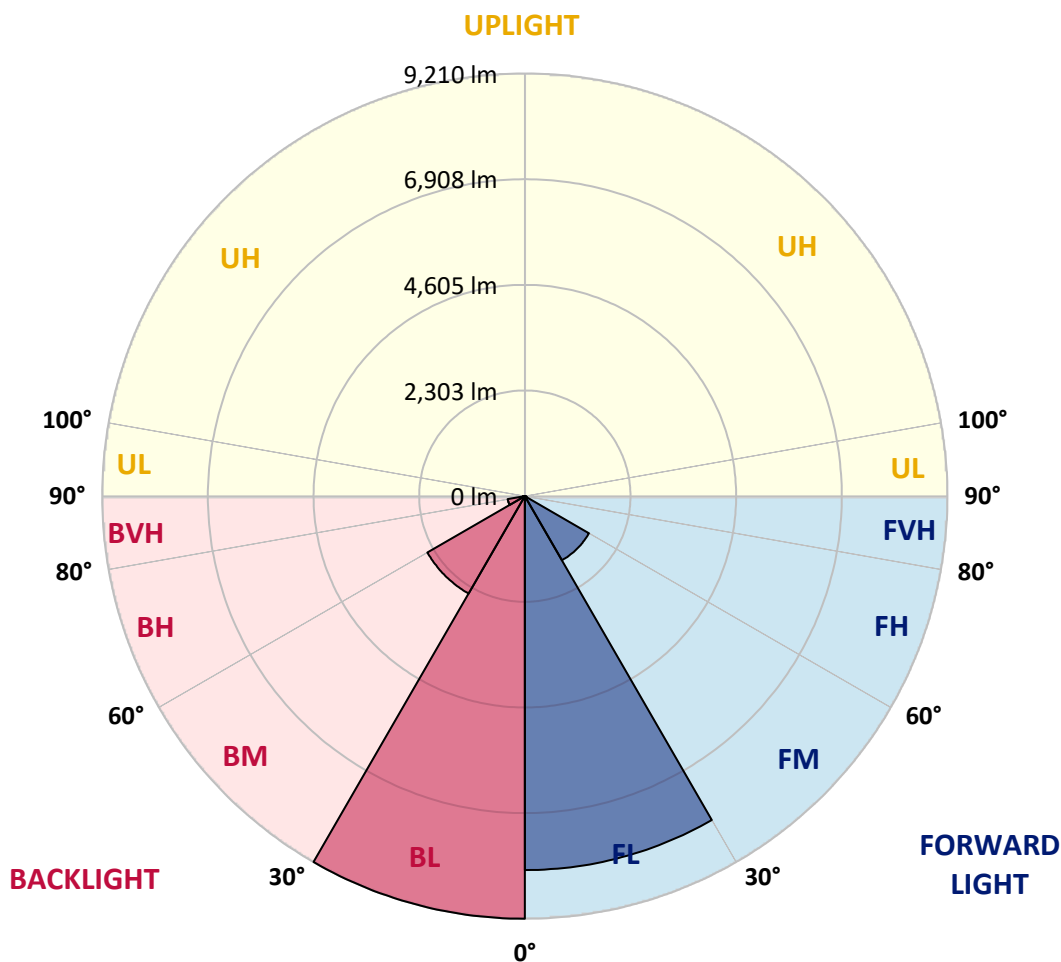
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8149.2	37.2			
FM (30°-60°)	1615.0	7.4			
FH (60°-80°)	39.1	0.2			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	9210.1	42.1	B5		
BM (30°-60°)	2453.3	11.2	B2/2500		
BH (60°-80°)	380.3	1.7	B1/500		G1/500
BVH (80°-90°)	42.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0
2.5°	29837.6	29938.5	29736.6	29870.4	29973.9	30221.3	30241.5	30327.3	30357.6	30582.3
5°	29272.1	29350.3	29186.2	29365.5	29511.9	29731.5	29900.7	30138.0	30269.2	30534.3
7.5°	28683.8	28701.5	28668.7	28858.0	29077.7	29380.6	29590.1	29900.7	29981.5	30360.1
10°	27971.9	27843.2	27906.3	28184.0	28512.2	28976.7	29120.6	29431.1	29575.0	29961.3
12.5°	26835.9	26901.5	26823.3	27176.7	27449.3	27977.0	28128.4	28441.5	28716.7	29057.5
15°	25235.3	25197.4	25356.5	25631.7	25927.0	26346.1	26591.0	26931.8	27141.3	27494.8
17.5°	21637.8	21766.6	22423.0	23112.2	23718.1	24207.8	24500.7	24783.4	24934.9	25318.6
20°	18686.7	18525.1	18613.4	19002.2	20726.5	21476.3	21784.3	21852.4	21915.5	22218.5
22.5°	15387.1	15334.1	15629.4	16066.2	16475.2	18204.5	18623.5	18464.5	18595.8	18881.0
25°	11426.1	11693.7	11956.2	12794.4	13324.5	14172.8	14968.0	15038.7	15086.7	15265.9
27.5°	9300.4	9207.0	9202.0	9436.7	10219.3	10926.2	11602.8	11759.3	11731.5	11903.2
30°	7311.1	7280.8	7174.7	7230.3	7152.0	7780.6	8098.7	8742.5	8707.1	8712.2
32.5°	5273.8	5160.2	5117.2	5200.6	5119.8	5061.7	5339.4	6066.5	6053.8	6104.3
35°	3191.0	3175.9	3211.2	3284.4	3122.9	3117.8	3175.9	3860.0	3943.3	4024.1
37.5°	1762.1	1747.0	1774.8	2044.9	1991.9	1943.9	1959.0	2320.1	2559.9	2620.5
40°	1161.3	1158.8	1179.0	1226.9	1317.8	1300.1	1307.7	1469.3	1696.5	1749.5
42.5°	777.6	780.1	792.7	848.2	860.9	951.8	936.6	974.5	1186.5	1232.0
45°	621.0	618.5	626.1	600.8	616.0	709.4	719.5	722.0	903.8	931.6
47.5°	489.8	489.8	497.3	464.5	456.9	515.0	568.0	575.6	722.0	759.9
50°	343.3	343.3	381.2	366.1	383.7	401.4	459.5	467.0	590.7	631.1
52.5°	252.5	257.5	262.6	265.1	323.1	320.6	371.1	406.5	446.8	517.5
55°	191.9	196.9	184.3	196.9	239.8	267.6	277.7	328.2	356.0	434.2
57.5°	126.2	138.8	128.8	151.5	161.6	207.0	222.2	270.1	287.8	356.0
60°	17.7	20.2	32.8	106.0	113.6	136.3	171.7	214.6	232.3	290.3
62.5°	2.5	2.5	7.6	17.7	75.7	90.9	128.8	148.9	171.7	217.1
65°	0.0	0.0	2.5	5.0	15.1	53.0	65.6	80.8	118.7	156.5
67.5°	0.0	0.0	2.5	5.0	7.6	17.7	27.8	53.0	68.2	108.6
70°	0.0	0.0	2.5	5.0	7.6	10.1	15.1	20.2	40.4	63.1
72.5°	0.0	0.0	2.5	5.0	7.6	10.1	12.6	15.1	17.7	40.4
75°	0.0	0.0	2.5	5.0	7.6	12.6	15.1	15.1	15.1	17.7
77.5°	0.0	0.0	2.5	5.0	10.1	15.1	17.7	15.1	12.6	12.6
80°	0.0	0.0	2.5	7.6	12.6	17.7	20.2	15.1	10.1	7.6
82.5°	0.0	0.0	2.5	7.6	12.6	17.7	20.2	17.7	10.1	7.6
85°	0.0	0.0	2.5	7.6	10.1	12.6	20.2	17.7	10.1	5.0
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	10.1	7.6	5.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
30499.0	0°	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0	30499.0
30577.2	2.5°	30804.5	30918.1	31117.5	31173.0	31344.7	31147.8	31039.2	31049.3	30814.5
30501.5	5°	30804.5	31064.5	31412.9	31579.5	31705.7	31695.6	31667.8	31597.2	31425.5
30350.0	7.5°	30723.7	31147.8	31627.5	31849.6	32001.1	31988.5	32051.6	31938.0	31728.4
30079.9	10°	30463.6	30832.2	31423.0	31604.7	31849.6	31854.7	31776.4	31799.1	31425.5
29092.8	12.5°	29645.7	29933.5	30451.0	30658.0	30955.9	31003.9	30918.1	30885.2	30531.8
27474.6	15°	28062.8	28229.4	28749.5	28956.5	29251.9	29211.5	29297.3	29262.0	28951.4
25288.3	17.5°	25747.8	25800.8	26346.1	26520.3	26798.0	26906.6	26777.8	26941.9	26674.3
22271.5	20°	22428.0	22713.3	23326.8	23594.4	23755.9	23950.3	23781.2	23965.5	23652.4
18610.9	22.5°	19060.3	19229.4	19784.8	20171.1	20471.5	20509.4	20446.3	20575.0	20153.4
15384.6	25°	15382.0	15662.3	16101.5	16606.4	16901.8	17083.6	16919.5	17002.8	16934.6
11931.0	27.5°	12132.9	12382.9	12713.6	13089.7	13534.1	13771.4	13640.1	13781.5	13448.2
8896.5	30°	8904.1	9030.3	9403.9	9802.8	10290.0	10577.8	10590.5	10734.3	10537.4
6233.1	32.5°	6278.5	6389.6	6619.3	6884.4	7348.9	7669.6	7619.1	7639.3	7518.1
4062.0	35°	4082.2	4231.1	4395.2	4521.5	4801.7	5155.1	5127.3	5102.1	5018.8
2671.0	37.5°	2729.0	2787.1	2878.0	2991.6	3173.3	3395.5	3468.7	3377.8	3342.5
1802.5	40°	1845.4	1946.4	2007.0	2092.8	2178.7	2365.5	2416.0	2398.3	2363.0
1262.3	42.5°	1310.2	1388.5	1464.2	1547.5	1593.0	1709.1	1807.6	1779.8	1764.7
959.3	45°	994.7	1065.4	1153.7	1216.8	1262.3	1330.4	1423.8	1433.9	1411.2
770.0	47.5°	797.8	860.9	931.6	1009.8	1062.8	1105.7	1186.5	1216.8	1201.7
648.8	50°	676.6	724.5	792.7	871.0	929.0	966.9	1037.6	1070.4	1060.3
542.8	52.5°	575.6	633.7	696.8	762.4	833.1	871.0	936.6	984.6	977.0
449.4	55°	477.1	552.9	618.5	684.2	764.9	802.8	860.9	924.0	911.4
381.2	57.5°	416.5	479.7	547.8	610.9	696.8	747.3	800.3	865.9	863.4
313.0	60°	348.4	411.5	487.2	540.3	631.1	701.8	749.8	818.0	823.0
237.3	62.5°	277.7	356.0	414.0	487.2	570.5	653.9	699.3	767.5	792.7
181.8	65°	207.0	292.8	358.5	431.7	510.0	603.4	643.8	711.9	737.2
131.3	67.5°	154.0	219.6	302.9	366.1	454.4	535.2	583.2	646.3	664.0
78.3	70°	116.1	169.1	252.5	308.0	398.9	464.5	512.5	560.4	583.2
53.0	72.5°	68.2	126.2	199.4	265.1	343.3	398.9	434.2	472.1	487.2
25.2	75°	48.0	95.9	156.5	219.6	277.7	323.1	356.0	388.8	403.9
12.6	77.5°	25.2	70.7	123.7	176.7	217.1	255.0	287.8	313.0	323.1
10.1	80°	15.1	50.5	101.0	138.8	166.6	199.4	232.3	249.9	247.4
7.6	82.5°	10.1	40.4	73.2	101.0	121.2	146.4	169.1	181.8	181.8
5.0	85°	7.6	27.8	50.5	78.3	80.8	101.0	106.0	118.7	121.2
5.0	87.5°	5.0	17.7	27.8	45.4	42.9	53.0	55.5	63.1	68.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30499.0
30625.2
31481.0
31776.4
31316.9
30451.0
29049.9
26608.7
23627.2
20095.3
16891.7
13534.1
10572.8
7586.2
4945.6
3334.9
2368.0
1752.0
1408.7
1194.1
1057.8
971.9
911.4
860.9
823.0
790.2
734.6
664.0
578.1
482.2
398.9
320.6
244.9
179.2
118.7
65.6
0.0

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